The Theorems of Wiman-Valiron for Entire Functions SOV/43-58-13-3/16
of Several Complex Variables

modified. Then the theory of Wiman-Valiron can be transferred to an extensive class of functions of two variables. 8 theorems and lemmas are given.
There are 5 non-Soviet references, of which 2 are German, 2 French, and 1 Swedish.

SUBMITTED: June 28, 1957

Card 2/2

~~16(1)~~ 16.2000

SOV/39-49-4-4/6

AUTHOR: Gol'dberg, A.A. (Uzhgorod)

TITLE: On a Class of Riemannian Surfaces

PERIODICAL: Matematicheskiy sbornik, 1959, Vol 49, Nr 4, pp 447-458 (USSR)

ABSTRACT: The paper, on the results of which the author reported on the 10 th Scientific Session of the Uzhgorod State University in March 1956, starts from the investigations of H. Künzi [Ref 3 - 8]. Ends with a certain periodicity of structure (so-called Π-ends) are introduced, whereby the periodic, biperiodic and quarter ends of Künzi are obtained from these Π-ends as special cases. Furthermore a quasiconformal mapping of the Riemannian surface with finitely many Π-ends onto the finite ζ-plane is constructed. ; the behavior of this mapping at infinity is conformal, so that the asymptotic properties of the meromorphic function $w = f(z)$ can be thus investigated which conformally maps the finite z-plane onto the above Riemannian surface. Related problems were already treated by the author in [Ref 12] in a less general form.

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On a Class of Riemannian Surfaces SOV/39-49-4-4/6

There are 7 figures, and 12 references, 2 of which are Soviet, 4 German, 3 French, 2 Swiss, and 1 Finnish.

SUBMITTED: February 18, 1958

ASM I 800 & CONTINUED

Isaakyan, [illegible] to solve the problems [illegible] atomic energy (Atomnaya [illegible]) [illegible] Vest Lvov; Collection of Articles) [illegible] 3,000 copies printed.

II. (Title [illegible]): A. I. [illegible] M. Ya. Lavrentiev; [illegible]

Purpose: This book is [illegible] engineers, scientific workers, and [illegible]

Contents: The [illegible] Conference on [illegible] University for [illegible] in the [illegible] Into Practice. [illegible] series, boundary [illegible] functions and [illegible]

[illegible]

[illegible] Of the [illegible]

[illegible], S. (Rumania). [illegible] Concerning the a Set of Their [illegible]

[illegible], I. [illegible] (Kiev). [illegible] Analytic Functions and [illegible]

[illegible], V. S. (Perm'). [illegible] Back Theorem for [illegible] Functions [illegible]

[illegible], Yu. L. (Perm'). Boundary Value [illegible] of the [illegible] of Analytic Functions on Finite Riemann Surfaces 4[illegible]

[illegible], V. V., and M. M. [illegible] (Perm'). Riemann Surfaces [illegible] Responding to Functions of the Class

$$w = z^{a} + \frac{1}{z^{a}} \quad (a = 1, 2, 3, \ldots)$$ 4[illegible]

PART VI

[illegible], S. V. (Moscow). On Mappings With Are Generated by the Solutions of Nonlinear Systems of Partial Differential Equations 4[illegible]

[illegible], [illegible] (Poland). Common Properties of the Solutions of Elliptic Systems on a Plane 4[illegible]

[illegible], [illegible] (Kiyev). On (p, q)-Analytic Functions of a Complex Variable and Some of Their Applications 4[illegible]

Chibrikova, L. I. (Kazan'). Application of Automorphic Functions to the Solution of Certain Boundary-Value Problems for Mixed-Type Equations 5[illegible]5

[illegible], S. A. (Perm'). Approximate Construction of Certain Quasi-conformal Mappings 5[illegible]9

PART VII

[illegible], S. I. (Kiyev). Methods of the Theory of Functions of a Complex Variable in Generalized Harmonic Analysis on a Straight Line 5[illegible]

[illegible], S. T. (Lutsk). On Minimum Extensions of Linear Functionals in Complex Space C(Q) 531

[illegible], S. N., and V. S. Vladimirov (Moscow). On the Analytic Continuation of Generalized Functions 535

[illegible], A.H. (Saratov). On Certain Properties of Functions of Many Variables 537

AVAILABLE: Library of Congress

Card 9/9

AC/[illegible]/[illegible]
7-18-60

WITTICH, Hans; GOL'DBERG, A.A. [translator]; VOLKOVYSKIY, L.I., red.

[Current studies on analytic functions] Noveishie issledovaniia po odnoznachnym analiticheskim funktsiiam. Moskva, Gos. izd-vo fiziko-matem. lit-ry, 1960. 319 p. (MIRA 16:4)

(Functions, Analytic)

S/140/60/000/004/012/025 XX
C111/C222

/4.3000

AUTHOR: Gol'dberg, A.A.

TITLE: On Meromorphic Functions With Separated Zeros and Poles

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Matematika, 1960 No 4, pp 67 - 72

TEXT: Let $w = f(z)$ be a function meromorphic in $z \neq \infty$, $f(0) \neq 0, \infty$; let $\{a_k\}$ and $\{b_k\}$ be its zeros and poles; $T(r)$ be its Nevanlinna characteristic, $\rho = \overline{\lim_{r\to\infty}} \ln T(r)/\ln r$ be the order, $\lambda = \underline{\lim_{r\to\infty}} \ln T(r)/\ln r$ be the lower order of $f(z)$. Let p be a natural number, $\frac{\pi}{2p} > \eta > 0$, $0 \leq \varphi < 2\pi$. Let $D_1^p(\eta, \varphi)$ and $D_2^p(\eta, \varphi)$ be two domains:

$$D_1^p(\eta, \varphi) = \bigcup_{j=0}^{p-1} \left\{ \left| \arg z - \varphi - \pi \frac{2j}{p} \right| < \frac{\pi}{2p} - \eta \right\}$$

$$D_2^p(\eta, \varphi) = \bigcup_{j=0}^{p-1} \left\{ \left| \arg z - \varphi - \pi \frac{2j+1}{p} \right| < \frac{\pi}{2p} - \eta \right\}$$

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On Meromorphic Functions With Separated Zeros and Poles

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Definition : If there exist φ and η so that

(1) $$\sum_{a_k \in D_1^p(\eta,\varphi)} \frac{1}{|a_k|^p} < \infty \quad \text{and} \quad \sum_{b_n \in D_2^p(\eta,\varphi)} \frac{1}{|b_n|^p} < \infty$$

then it is said that the zeros and poles are p-separated
Theorem : If f(z) has a finite lower order λ and if its zeros and poles are p - separated, $p > \lambda$, then the growth of f(z) does not exceed the minimal type of the order p If f(z) has an integral lower order $\lambda = p$ $\underline{\lim}_{r\to\infty} T(r)/r^{\lambda} < \infty$ and if the zeros of f(z) are p-separated, then there exists $\lim_{r\to\infty} T(r)/r^{\lambda} \neq 0, \infty$ (consequently $\gamma = \lambda$)
Herefrom it follows a result of A. Edrei, W. Fuchs (Trans Amer Math Soc. 1959, Vol. 93, pp. 292 - 328), furthermore : For entire functions of finite lower order with positive zeros it holds

$$\lim_{r\to\infty} \frac{T(r+1)}{T(r)} = 1 \quad , \quad \lim_{r\to\infty} \frac{\ln M(r+1,g)}{\ln M(r,g)} = 1$$

and the defects of these functions do not depend on the choice of the

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On Meromorphic Functions With Separated Zeros and Poles

S/140/60/000/004/012/023 XX
E111/E222

coordinate origin. Furthermore : If an entire function $g(z)$ of the class A (cf. (Ref 1)) has a finite lower order λ, then its growth is not greater than the minimal type of the order $2\left[\frac{\lambda}{2}\right] + 2$. If λ is even and $\underline{\lim}_{r\to\infty} T(r)/r^{\lambda} < \infty$, then there exists $\lim_{r\to\infty} T(r)/r^{\lambda} \neq 0, \infty$. In any case λ and ρ both belong to an interval $[2k, 2k+2]$, $k = 0, 1, 2, \ldots$

There are 6 references : 2 Soviet, 2 French, 1 American and 1 Finnish.

[Abstracter's note: (Ref. 1) concerns B.Ya. Levin "Distribution of Zeros of Entire Functions", Moscow, 1956]

ASSOCIATION: Uzhgorodskiy gosudarstvennyy universitet (Uzhgorod State University)

SUBMITTED: October 9, 1958

Card 3/3

89217

S/042/60/015/005/009/016XX
C111/C222

16,3000

AUTHOR: Goldberg, A A

TITLE: A Theorem of Liouville Type

PERIODICAL: Uspekhi matematicheskikh nauk, 1960, Vol. 15, No. 5, pp. 155-158

TEXT: Let $w = f(z)$ be meromorphic in $G: 0 < |z - z_0| < R$. Take 2p points on the circle $|z - z_0| = R$ and connect them in G with the aid of Jordan curves free of intersections $C_1, C_2, \ldots, C_p, C_p$ with z_0 so that G decomposes into 2p curvilinear sections $D_1, G_1, \ldots, D_p, G_p$ written in the sequence of the circulation around z_0. To G_i and D_i there also belong their boundaries without the point z_0. The indices are considered mod p so that $G_{p+1} \equiv G_1$.

Theorem: Let the function $w = f(z)$ meromorphic in G assume in D_i values of a simply connected domain A_i and in G_i values of a simply connected Domain B_i of the extended w-plane $(i = 1, \ldots, p)$. Let the domains A_i and B_i have the following properties: a) There exists a circle $|w| = Q$ not intersecting

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A Theorem of Liouville Type

$\bigcup_{i=1}^{p} B_i$ and for every i not intersecting the boundary of A_i; 2) Let every domain A_i be so that each A_i is of hyperbolic type i.e. its complement is a continuum. 3) There exists a constant M and for every A_i containing a there exists a point $b \in A_i$ so that on every continuous curve Γ lying in $A_i \setminus B_i$ resp. $A_i \setminus B_i$ it holds

$$(1)\quad \begin{cases} \int_{\Gamma} d \arg \frac{w-a}{w-b_i} = \int_{\Gamma} d \arg \frac{w-a}{w-b_i} \leq M, & b_i \neq \infty \\ \int_{\Gamma} d \arg (w-a) = \int_{\Gamma} d \arg (w-a) \leq M, & b_i = \infty \end{cases}$$

Then $w = f(z)$ is meromorphic in the whole circle $|z - z_0| \leq R$. As an exceptional case herefrom it follows the theorem of M. P. Balk (Ref. 1).
The following lemma is essential for the proof.
Lemma 2: Let $w = f(z)$ be holomorphic and bounded in $|z| < 1$, continuous in

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C111/C222

A Theorem of Liouville Type

$|z| < 1$ with an exception of the point $z = 1$ and let it have infinitely many zeros in $|z| < 1$. Let furthermore $0 < m_1 < |f(e^{i\theta})| < m_2 < \infty$, $0 < \theta < 2\pi$. Then there exists a sequence of arcs γ_n: $|z| = 1$, $0 < \theta_n' < \arg z < \theta_n'' < 2\pi$, $\lim_{n\to\infty} \theta_n' = 0$, $\lim_{n\to\infty} \theta_n'' = 2\pi$, so that $\lim_{n\to\infty} \int_{\gamma_n} \arg f(e^{i\theta}) = \lim_{n\to\infty} \int_{\theta_n'}^{\theta_n''} d \arg f(e^{i\theta}) = +\infty$.

The author mentions V. I. Smirnov. There are 3 references: 2 Soviet and 1 Finnish.

Card 3/3

GOLDBERG, A.A.; GOLOVCHIY, I.V.

Some theorems on the growth of meromorphic functions. Dokl. AN SSSR 115:3-37 '57. (MIRA 11:5)

GOL'DBERG, A.A.; SHVALAGIN, M.V.

Summation of certain series by means of the theory of residues. (MIRA 14:8)
Ukr.mat.zhur. 13 no.2:217-220 '61.
(Congruences and residues)

GOL'DBERG, A.A.; OSTROVSKIY, I.V.

New investigations on the growth and distribution of the values of entire and meromorphic functions of zero order. Usp. mat. nauk 16 no.4:51-62 Jl-Ag '61. (MIRA 14:8)
(Functions, Entire) (Functions, Meromorphic)

GOL'DBERG, A.A.

Distribution of values of meromorphic functions with separated zeros and poles. Dokl.AN SSSR 137 no.5:1030-1033 Ap '61. (MIRA 14:4)

1. Uzhgorodskiy gosudarstvennyy universitet. Predstavleno akademikom M.A.Lavrent'yevym.

(Functions, Meromorphic)

GOL'DBERG, A.A.

Extremum indicator for integral [illegible]
order. Dokl. i soob. UzhGU, [illegible]
no.5:85-87 [illegible]

GOL'DBERG, A.A., TAIROVA, Z.G.

Analytic functions with two finite poles by prescribed values. Dokl. i soob. Resp. Sov. fiz.-mat. i tekh. nauk No. 1 [illegible] '62. (MIRA 17:9)

GOL'DBERG, A.A.

Extreme indicator for an entire function with positive zeros. Sib.mat.zhur. 3 no.2:170-177 Mr-Ap '62. (MIRA 15:4)
(Functions, Entire)

GOL'DBERG, A.A. (Uzhgorod)

Integral of a semiadditive measure and its application to the theory of entire functions. Part 1. Mat.sbor. 58 no.3:289-334 N '62. (MIRA 15:11)

(Integrals) (Functions, Entire)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1

L 19586-65 EWT(d) IJP(c)/AFWL/ASD(a)-5

ACCESSION NR: AP5002059 S/0020/63/152/005/1049/1050

AUTHORS: Gol'dberg, A. A.

TITLE: Growth of an entire function along a ray

SOURCE: AN SSSR. Doklady, v. 152, no. 5, 1963, 1049-1050

TOPIC TAGS: complex variable

ABSTRACT: Let f(z) be an entire function of order ρ and let T(r) be its Nevanlinna characteristic:

$$T(r) = \frac{1}{2\pi}\int_0^{2\pi} \ln^+ |f(re^{i\varphi})|\, d\varphi. \qquad (1)$$

The growth of $\ln|f(re^{i\varphi})|$ for fixed φ is compared with the growth of T(r). It is shown that

$$\liminf_{r\to\infty} \frac{\ln|f(r)|}{T(r)} \leqslant \begin{cases} \pi\rho \operatorname{cosec} \pi\rho, & 0 \leqslant \rho < 1/2, \\ \pi\rho, & \rho > 1/2, \end{cases} \qquad (2)$$

which extends a result of R. E. A. C. Paley (Proc. Cambridge Phil. Soc., 28, 262 (1932). The estimate (2) is unimprovable, and is a new result for $1/2 < \rho < \infty$.

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1

L 19586-65

ACCESSION NR: AP5002059

Orig. art. has: 3 formulas.

ASSOCIATION: Uzhgorodskiy gosudarstvenny*y universitet (Uzhgorod State University)

SUBMITTED: 18Apr63 ENCL: 00

SUB CODE: MA NR REF SOV: 002 OTHER: 007

Card 2/2

GOL'DBERG, A.A. (Uzhgorod)

An integral over a semiadditive measure and its application to the theory of integral functions. Part 2. Mat. sbor. 61 no.3: 334-349 Jl '63. (MIRA 16:7)

(Integrals) (Functions, entire)

GOL'DBERG, A.A.

Increase of an integral function along the half line. Dokl. AN SSSR 152 no.5:1049-1050 O '63. (MIRA 16:12)

1. Uzhgorodskiy gosudarstvennyy universitet. Predstavlena akademikom M.A.Lavrent'yevym.

GOL'DBERG, A.A.

Lower order of an integral function [illegible] value. Sib. mat. zhur. 5 no.1 54-7c Ja-F [illegible] (MIRA [illegible])

GOL'DBERG, A.A.; LEVIN, B.Ya.

Integral functions bounded on the real axis. Dokl. AN SSSR 157 no.1:19-21 Jl '64 (MIRA 17:8)

1. L'vovskiy gosudarstvennyy universitet im. I. Franko, i Khar'kovskiy gosudarstvennyy universitet im. A.M.Gor'kogo. Predstavleno akademikom S.N. Bernshteynom.

GOL'DBERG, A.A. (L'vov)

Integral over a semi-additive measure and its application to the theory of entire functions. Part 3. Mat. sbor. 65 no.3: 414-453 N '64 (MIRA 18:1)

GOL'DBERG, A.A.

Possible magnitude of the lower order of an integral function with a finite deficiency value. Dokl. AN SSSR 159 no.5:968-970 D '64 (MIRA 18:1)

1. L'vovskiy gosudarstvennyy universitet im. I. Franko. Predstavleno akademikom A.N. Kolmogorovym.

[illegible]

[illegible] application to the [illegible] Nov. 1960, [illegible] No. 148. (MIRA 18:5)

GOL'DBERG, A.B.

Case of staphylococcus poisoning from eating freshly salted herring. Gig. i san. 21 no.9:79-80 S '56. (MLRA 9:10)
(STAPHYLOCOCCUS) (HERRING) (FOOD POISONING)

GOL'DBERG, A.B.; POPUGAYLO, V.M.

Detecting Cl. putrificum in suppurative wounds. Lab. delo 3 no.1:38 Ja-F '57 (MLRA 10:4)
(CLOSTRIDIUM PUTRIFICUM)

[illegible], vrach

[illegible] methods [illegible]

(COMMUNI[illegible]

KRIVTSOV, N.N., inzhener; GOL'DBERG, A.E., inzhener.

Reconstruction of a boiler's rear end. Energetik 1 no.3:11-13 Ag '53. (MLRA 6:8)
(Steam boilers)

8(6) SOV/91-59-10-3/29

AUTHORS Kovarskiy L. G. and Goldberg A. E. Engineers

TITLE: Application of Gas Vaporizers and Heat Economizers

PERIODICAL Energetik, 1959, Nr 10, pp 7-10 (USSR)

ABSTRACT: At the electric power stations where the turbines are fully utilized, as well as in industrial boiler installations, it is often expedient to use gas vaporizers or heat economizers for the purpose of lowering down temperatures of outgoing gases. At the present time, there are in Leningrad over 20 electric power stations using such installations. experience has shown that it is practically possible to lower the outgoing gas temperature down to 105° - 130°C. The most moderate working parameters of gas evaporizers (pressure 0.7 at. and temperature 115° - 200°C), and heat economizers (pressure 3-5 at and temperature 105° - 200°C) do not make any particular claims of materials for manufacturing them. Their building is 2 - 2.5 times less expensive than the construction of increased tail heating surface of boilers. The work of gas vaporizers and heat economizers has been ve

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SOV/91-59-10-3/8

Application of Gas Vaporizers and Heat Economizers

rified by using different brands of coals, peat schist and natural gas. In Figs. 1 and 2, diagrams of gas vaporizer are given. The following is a short outline of the advantages of gas vaporizers: a) A relatively small consumption of feeding water (20 to 30 times less than in heat economizers), as a result, less consumption of electric energy required to feed the installation; possibility of using feed pipe lines of a small diameter without applying special pumps. b) Possibility of automation and level regulation. c) Possibility of feeding by chemically pure water. d) Possibility of blowing off the low-potential media from the gas vaporizer, thus decreasing the blowing off rate of the boiler. e) Less working pressure, and, consequently, smaller requirements as regards material. In Figs. 3 and 4, diagrams of the heat economizer are given. Its advantages are: a) Compactness of installation. b) A comparatively small diameter of the heated water pipe line. c) Possibility of a more efficient (by 5° - 10°C) cooling of gases. Gas vaporizers and heat economizers are usually located be-

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SOV/91-59-10-3/29

Application of Gas Vaporizers and Heat Economizers

hind the boilers, no special bearing constructions are required, and the whole installation is mounted directly on boiler seat. The simplest and most reliable installation for the utilization of outgoing gas heat consists of the following components (Fig. 2): A gas vaporizer in the form of a horizontal barrel with fire-tubes which is fed by turbine condensation heated in a regenerator above the dew-point. Experience accumulated in the course of several years, has shown the optimum speed of gases passing through gas vaporizers and heat economizers should amount to 15-22 m/sec. The volume of gas that has passed through the vaporizer is decreased, due to its cooling, by 10% - 20%. Maintenance of gas vaporizers and heat economizers means on the whole, their periodical cleaning and blowing off. There are 1 table and 5 diagrams.

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KOVARSKIY, L.G., inzh.; GOL'DBERG, A.E., inzh.

Cutting openings in the walls of drum boilers and collectors. Energetik 8 no.7:13-14 Jl '60. (MIRA 13:8)

(Gas welding and cutting) (Boilers)

GOL'DBERG, A.F.

Ca

11 G

Chemical changes in the sensitization of animals with implanted cancer. A. F. Gol'dberg and M. V. Lepskaya (VIEM, clinic, Moscow). *Byull. Eksptl. Biol. Med.* (U.S.S.R.) 11, 107-10(1941).—Cancer implants in 1 group of rabbits were in the form of individual nodules on the parietal peritoneum or other organs and failed to show rapid growth or an appreciable no. of metastases; in a 2nd group there were metastases in the peritoneum and other organs by the end of 3-4 weeks. In the 2nd group there are definite metabolic changes after 10 days. Blood nonprotein N was increased 2.5 times, polypeptides by 30 mg.%, blood sugar was lowered by 23 mg.%, and cholesterol by 15 mg.%. After 18 days the nonprotein N rose still higher, reaching 93 mg.%, the blood sugar rose 28 mg.%, polypeptides decreased 32 mg.% and cholesterol rose 24 mg.%. After 25 days the nonprotein N rose to 109 mg.%, with slight changes in the other constituents. The 1st animal group showed a different picture. The nonprotein N and polypeptide levels rose very slowly. The blood sugar level did not change appreciably, and cholesterol remained somewhat below the initial level until about 20 days. Implantation of the cancer after the appearance of the Arthus phenomenon resulted in a considerable rise of nonprotein N, and the polypeptides also rose in the 1st 15 days, dropping before death. The sugar level rose during the sensitization period and fell below the initial value some 15 days before death. Rabbits failing to develop the Arthus phenomenon even after prolonged sensitization showed only small changes in N and sugar metabolism. Implantation after 4 injections of horse serum resulted in high nonprotein N and polypeptide levels and an extremely variable sugar level. The av. life was much shortened (5 weeks). Thus cancer implantation before the appearance of the Arthus phenomenon led to rapid cancer growth and great metabolic changes. Sensitization 10-20 days after cancer implantation also produced marked changes: a sharp rise in nonprotein N, increase of polypeptides to 2.5 times normal, and carbohydrate levels similar to those in cancer (lowered levels). The life span was very short. G. M. K.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

SHEKHONIN, V.P., doktor med. nauk; GOL'DBERG, A.F.

Body function and the permeability of the blood capillaries in hypertonia before and after radiotherapy. Trudy TSentr. nauch.-issl. inst. rentg. i rad. 10:348-356 '59. (MIRA 12:9)
(HYPERTENSION) (CAPILLARIES--PERMEABILITY)
(X RAYS--THERAPEUTIC USE)

ABRAMOVA, N.D., kand. med. nauk; GOL'DBERG, A.F., kand. med. nauk; FIREVTSEV, T.Z., kand.med. nauk; OVCDOVA, N.I., doktor.

Outcome of myocardial infarct and subsequent work ability in middle-aged and elderly persons engaged in mental work. Sovet. med. 26 no.5:22-26 My'63 (MIRA 17:1)

1. Iz dispansernogo otdela (nach. O.Ya. Morokhovets) Moskovskoy polikliniki Ministerstva zdravookhraneniya RSFSR (dir. V.I. Yermolov).

GOLDBERG, Abram Girshevich; SHAKHNO, K.U., red.; RAKOVITSKIY, I.G., tekhn.red.

[Functions and their study. Derivatives, Teacher's manual] Funktsii i ikh issledovanie. Proizvodnaia. Iz opyta uchitelia. Leningrad, Gos.uchebno-pedagog. izd-vo M-va prosv. RSFSR, Leningr. otd-nie, 1957. 67 p. (MIRA 11:3)

(Functions)

GOL'DBERG, A.G. (Leningrad)

Incommensurate segments. Mat.v shkole no.4:66-67 Jl-Ag '59.
(MIRA 12:11)

(Geometry)

GOL'DBERG, A.G.

New methods of planning underground communications in by-product coking plants. Koks i khim. no.6:54-57 '60. (MIRA 13:7)

1. Giprokoks.
(Coke industry--Equipment and supplies)

24(3), 24(2), 18(3) SOV/126-7-2-37/39

AUTHORS: Gol'ber, A. I., [illegible], E. V.

TITLE: The Effect of Decomposition of Leboite on Electrical Properties of Iron-Silicon Alloys (Vliyaniye rasprada leboita na elektricheskiye [illegible] splavov zheleza s kremniyem)

PERIODICAL: Fizika Metallov i Metallovedeniye, 1959, Vol 7, Nr 2, pp 313-317 (USSR)

ABSTRACT: Leboite and disilicides of [illegible] and manganese exhibit semiconducting properties (Refs 1-4). These properties, in conjunction [illegible] thermal conductivity (Refs [illegible]), [illegible] these materials. For [illegible] the effect of composition [illegible], the Hall constant and electrical [illegible] of FeSi-Si alloys. Measurements were [illegible] on cast cylindrical [illegible] temperature modification [illegible] annealed for four hours [illegible] water. To stabilize β-leboite [illegible] were annealed for 10-12 hours [illegible] gradually to room temperature, [illegible], was

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The Effect of Decomposition of Lebolite [illegible] 77[illegible]
of Iron-Silicon Alloys

measured at applied magnetic fields from 17000-[illegible] oersted. The electrical resistivity and thermoelectric power were measured simultaneously [illegible] by a method described earlier [illegible]. It was found that electrical properties of [illegible] very sensitive to the phase state of lebolite. [illegible] due to the fact that the high-temperature [illegible] an electrical resistivity, Hall [illegible] and thermoelectric power, about three orders higher than those of the low-temperature modification [illegible]. The thermoelectric power α depends [illegible] composition. It is comparatively [illegible] of lebolite but rises [illegible] stoichiometric composition of [illegible] and then falls rapidly, changing its sign above 55 wt.% of Si. At its maximum the value of α reaches 0.055 mV/°C. Other properties of these alloys also depend strongly on composition. In particular (Fig. 1) the 20°C isotherms of electrical resistivity (ρ) and the Hall constant (R_x),

Card 2/4

The Effect of Decomposition of Leboite on Electrical Properties of Iron-Silicon Alloys

are similar to the thermoelectric power isotherm. The maxima of α, ρ and R_x occur at practically the same composition. The high values of α, ρ (max. of 2.0 Ohm.cm) and R_x (max. of [illegible] units) confirm that p-leboite is a semiconductor. In alloys containing up to 55 wt.% of Si, the hole mechanism of conductivity predominates; the hole density is of the order of (3-5) x 10^{18} cm^{-3} and their mobility is of the order of 1 cm^2 sec^{-1} V^{-1}. Alloys with more than 55 wt.% of Si have predominantly electron conductivity. Electrical properties of alloys containing α-leboite are quite different. Up to the point when Si separates out (55 wt.% of Si) alloys with α-leboite exhibit low thermoelectric power, electrical resistivity and Hall constant (Fig 2). This indicates that the semiconducting properties are lost on transition from p-leboite to α-leboite. A certain scatter of values of electrical conductivity of quenched samples (with α-leboite) is due to microcracks which are produced by large volume changes on transition to α-leboite.

Card 3/4

SOV/181-2-1-37/39

The Effect of Decomposition of Lebolite on Electrical Properties of Iron-Silicon Alloys

There are 2 figures and 9 Soviet references.

(Note: This is an abridged translation)

ASSOCIATION: Ural'skiy politekhnicheskiy institut imeni S.M.Kirova (Ural Polytechnical Institute imeni S. M. Kirov)

SUBMITTED: February 19, 1959

Card 4/4

18.8100, 24.7600

66242

SOV/126-8-3-30/33

AUTHORS: Gol'dberg, A.I., Lipatova, V.A. and Gel'd, P.V.

TITLE: The Electrical Conductivity and the Hall Effect in Alloys of Iron and Silicon, Containing Leboite, at High Temperatures

PERIODICAL: Fizika metallov i metallovedeniye, 1959, Vol 8, Nr 3, pp 472-475 (USSR)

ABSTRACT: In an earlier paper (Ref 1) the authors reported their results of investigation of the electrical properties of β-leboite at room temperature; it was concluded that, in contrast to the γ_α-phase, the γ_β-phase is a semiconductor. To check this conclusion, the authors studied the temperature dependence of the electrical conductivity and the Hall effect of alloys of iron and silicon containing from 40 to 80% Si (by weight) at temperatures from 20 to 350°C. The alloys were prepared in an induction furnace using silicon of Kr.0 grade and Armco iron. Samples were prepared by sucking in the melt into quartz capillaries of 2.5 to 4.0 mm diameter. The low-temperature modification of leboite was obtained by annealing at 800°C (Ref 2,3). All measurements were carried out employing the usual compensation apparatus and pressure contacts. It was found that alloys with more than 45% Si exhibit the typical

Card 1/5

66242

SOV/126-8-3-30/33

The Electrical Conductivity and the Hall Effect in Alloys of Iron and Silicon, Containing Leboite, at High Temperatures

semiconductor type of variation of the electrical resistance with temperature. The exponential dependence of the resistance on temperature is particularly clear in samples containing 49 to 51% Si. These samples are closest in their composition to the β-phase. Moreover, their compositions are the same as those at which maxima of the electrical resistance, the Hall constant and the differential thermo-electric power occur on the curves representing composition against property; such maxima are found both at room and at higher temperatures. Outside the leboite region, all samples also exhibit semiconducting properties but the latter are less pronounced. In alloys containing 40 to 45% Si metallic conductivity predominates. Fig 1 shows the experimental data obtained for some of the samples plotted in coordinates of log σ (σ is the conductivity) against T^{-1} (T is the absolute temperature). Fig 1 shows that the conductivity of samples containing 50 to 55% Si is considerably greater than that of all the other samples and that alloys with 49 to 51% Si have the lowest

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SOV/126-8-3-30/33

The Electrical Conductivity and the Hall Effect in Alloys of Iron and Silicon, Containing Leboite, at High Temperatures

conductivity. From the straight lines of Fig 1, the following impurity-centre activation energies (in eV) were obtained (the values in brackets denote % Si by weight): 0.13 (48%), 0.20 (49,51), 0.18 (53), 0.17 (55), 0.13 (57), 0.12 (59), 0.08 (65), 0.04 (75,80). The latter values show that there is a maximum in the dependence of the activation energy on the amount of silicon at compositions close to that of β-leboite. The temperature dependence of the Hall constant was measured only for some of the samples since, in the case of others, no reliable values could be obtained because of high scatter. Magnetic fields of 10^4 Oe were applied during these measurements and two directions of the field and current were used. The results obtained are given in Fig 2 which shows that the absolute value of the Hall constant of all samples decreases with increase of temperature. This indicates that the impurity carrier density rises with increase of temperature. Samples with 49 to 51% Si have positive Hall constants, ie their conductivity is of the hole type. This conclusion agrees

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SOV/126-8-3-30/33

The Electrical Conductivity and the Hall Effect in Alloys of Iron and Silicon, Containing Leboite, at High Temperatures

with earlier measurements of the thermoelectric power (Ref 1). Outside the leboite region, the Hall constant is negative and its sign is reversed at 53 to 54% Si. In the same region of concentrations a reversal of the sign of the differential thermoelectric power was observed earlier; it is due to the presence of silicon crystallites in the alloys. The measurements carried out can be used to estimate the values of the current-carrier density and mobility. For example, the carrier density in the alloys of leboite composition at room temperature was found to be 7×10^{18} cm^{-3}, assuming that the Hall constant R_x is given by $R_x = 1/ne$. The current-carrier mobility for the same alloys amounted to 0.7 $cm^2 sec^{-1} v^{-1}$. The authors conclude that the results reported above confirm the earlier suggestion (Ref 1) of semiconducting properties of the low-temperature modification of leboite. There are 2 figures and 3 Soviet references.

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n.b. This is a complete translation except for figures.

66242

SOV/126-8-3-30/33

The Electrical Conductivity and the Hall Effect in Alloys of Iron and Silicon, Containing Leboite, at High Temperatures

ASSOCIATION: Ural'skiy politekhnicheskiy institut im S.M.Kirova (Urals Polytechnic Institute imeni S.M.Kirov)

SUBMITTED: July 14, 1958

Card 5/5

24 7700 1035, 1559, 1143

S/[illegible]
A[illegible]

AUTHORS: Gol'[illegible] A. I., Liparova, V. A., [illegible] P. V.

TITLE: Electrical Properties of the [illegible] Alloy Series

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Chernaya metallurgiya [illegible] No. 4, pp. [illegible]

TEXT: The low-temperature modification of the β phase of the Fe-Si system has semiconductor properties, which has been proven before (Ref. 1,2), but the material investigated was of commercial purity. The present article data on investigation has been carried out of alloys made of electrolytic iron and specimens of single crystal silicon taken in quartz crucibles in a high frequency induction furnace. The alloys contained Al, Mg, Mn, Fe, Si and Cr in a quantity not more 0.00[illegible]. The specific resistivity, the Hall constant and the thermoelectric motive force was measured in the temperature range from 20 to [illegible]. A potentiometer device described in Ref. [illegible] was used that makes simultaneous measurement of all these three characteristics possible. The data obtained are illustrated by graphs. Photoelectric conductivity of the β phase and [illegible] conductivity was found. Alloy [illegible] Si has a low conductivity [illegible] contains [illegible] impurities.

Card 1/[illegible]

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

S/148/60/000/004/003/0[illegible]
A161/A029

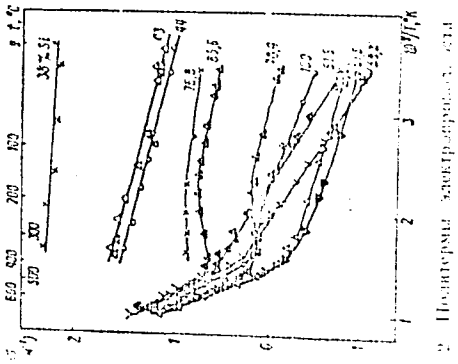
Electrical Properties of the FeSi-Si Alloy System

of the semiconductive [illegible]-phase of leboite. There are 8 graphs and [illegible] references: 7 Soviet, 2 English.

ASSOCIATION: Ural'skiy politekhnicheskiy institut (Ural Polytechnical Institute)

SUBMITTED: July 14, 1959

Figure 2:
Polytherms of Electric Conductivity



Card 3/3

GOL'DBERG, A.I.; GEL'D, P.V.

Effect of impurities on the thermoelectric properties of a low-temperature leboite. Trudy Ural.politekh.inst. no.96:190-194 '60. (MIRA 14:3)

(Leboite) (Thermoelectricity)

S/849/62/000/000/015/016
A060/A101

AUTHORS: Gol'dberg, A. I., Lipatova, V. A., Gel'd, P. V.

TITLE: Electric properties of iron alloys with silicon containing leboite

SOURCE: Vysokotemperaturnyye metallokeramicheskiye materialy. Inst. metalloker. i spets. spl. AN Ukr.SSR. Kiev, Izd-vo AN Ukr.SSR, 1962, 140 - 147

TEXT: The authors present results of investigating the electric properties of iron alloys with silicon produced from commercial and pure initial materials, such as transformer iron and electrolytical iron with single-crystal silicon. Basic measurements were made with alloys containing 40 to 90 weight % Si. Electric conductivity ($\sigma = 1/\rho$), the Hall coeffcient (R_x) and the thermo-emf (α) of the aforementioned alloys were investigated. High-temperature α-leboite, existing in the Fe-Si system, was found to have metal conductivity. ρ, α and R_x values are low and $d\rho/dT > 0$. Low-temperature β-leboite, sinthesized from both commercial and pure initial materials, shows high ρ, α and R_x, and a negative temperature coefficient of specific resistivity, indicating its semi-

Card 1/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

GOL'DBERG, A.I., kandidat meditsinskikh nauk

Postgastrectomy pernicious-like anemia. Terap.arkh. 27 no.1:65-72 '55. (MLRA 8:7)

1. Iz gospital'noy terapevticheskoy kliniki (zav. prof. I.V. Vorob'yev) i kafedry patofiziologii (zav. prof. D.I.Gol'dberg) Tomskogo meditsinskogo instituta.
(STOMACH, surgery,
gastrectomy, postop. pernicious-like anemia)
(ANEMIA, PERNICIOUS,
pernicious-like anemia after gastrectomy)

USSR / Human and Animal Physiology. Blood. T

Abs Jour: Ref Zhur-Biol., No 9, 1958, 41231.

Author : Goldberg, A. I.
Inst : Tomsk Medical Institute, Tomsk University.
Title : Hemopoiesis After Total Gastrectomy.

Orig Pub: S-y Pavlovsk. sb. Tomskiy med., in-ta, Tomsk, Un-t, 1956, 133-138.

Abstract: Results of following investigations relative to 14 men and 2 women with agastric pernicious anemia (5 patients operated for gastric ulcer, 10- for cancer and 1 for generalized gastric polyposis). Upon admission to the hospital the erythrocyte (E) count was from 800,000 to 2,660,000/1mm^3, Hb 16-60%, with marked aniso-and poikilocytosis: ovalocytes, hyperchromic erythrocytes and megalocytes were found. The value of megaloblastic elements in the

Card 1/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

GOL'DBERG, A.I.

Materials on the clinical aspects of agastric anemia. Probl.gemat. i perel.krovi 1 no.2:26-30 Mr-Ap '56. (MLRA 10:1)

1. Iz kafedry gospital'noy terapii (zav. - prof. A.A.Kovalevskiy) i kafedry patofiziologii (zav. - prof. D.I.Gol'dberg) Tomskogo meditsinskogo instituta.

(STOMACH, surg.
gastrectomy, causing anemia)
(ANEMIA, etiol. and pathogen
gastrectomy)

GOL'DBERG, A.I., dotsent; MAKARENKO, A.A.; KONDRATSKAYA, G.F.; KRIKUNENKO, G.V.

Therapeutic and prophylactic effects of various doses of vitamin B_{12} in megaloblastic and macrocytic forms of agastic anemias. Terap.arkh. 31 no.8:17-21 Ag '59. (MIRA 12:11)

1. Iz kafedry gospital'noy terapii (zav. - prof. A.A. Kovalevskiy) i kafedry patofiziologii (zav. - prof. D.I. Gol'dberg) Tomskogo meditsinskogo instituta.

(VITAMIN B_{12} therapy)
(ANEMIA, HYPERCHROMIC therapy)
(GASTERCTOMY complications)

GOL'DEBERG, A. I., Doc Med Sci -- (diss) "Agastric B_{12}-deficiency anemia, as remote consequences of total gastroectomy." Tomsk, 1960. 200 copies; price not given; (Tomsk State Med Inst); list of author's works on pp 19-20 (12 entries); (KL, 26-60, 142)

GOL'DBERG, A.I.; GOL'DBERG, D.I., zasl. deyatel' nauki RSFSR, prof., red.; MORDOVINA, L.G., tekhn. red.

[Agastric vitamin B_{12} deficiency anemia; late sequelae of total gastrectomy]Agastricheskie B_{12}-defitsitnye anemii; otdalennye posledstviia total'noi gastrektomii. Tomsk, Izd-vo Tomskogo univ., 1962. 123 p. (MIRA 15:9)
(CYANOCOBALAMINE) (STOMACH--SURGERY)

report presented at the 1st All-Union Congress of Theoretical and Applied Mechanics, Moscow, 27 Jan - 3 Feb 1960.

68. M. S. Ganeyev, Kh. M. Mushtari, R. G. Sarsin (Kazan): On a method of solving problems of the bending theory of shallow shells with the use of electronic digital computers.

69. G. T. Gasanov, S. J. Gurbanov (Baku): Solution of unsteady problems of hydrodynamics of viscous and visco-plastic fluids.

70. A. V. Gemerling (Moscow): An approximate stability analysis of frames in the elastic-plastic range.

71. G. A. Gesler (Moscow): Some problems concerning the plane flow of compressible plastic media.

72. G. F. Gevorkian (Erevan): On a problem of elastic-plastic torsion of an anisotropic shaft.

73. I. S. Gerasimov (Moscow): A dynamic problem for a conical shell.

74. M. V. Gzovskii (Moscow): Tectonophysics -- a new domain of application of mechanics to geological problems.

75. M. V. Gzovskii, P. Cechina (Moscow): Simulating of processes of plastic deformation and rupture of rocks with great variations of time and size.

76. V. G. Gmoshinskii (Moscow): Development of a theory of pressure in rocks with the use of the methods of continuum mechanics.

77. I. I. Golberg (Moscow): Some generalizations of the basic equations of visco-elasticity.

78. I. I. Golberg (Moscow): The propagation of longitudinal waves in a visco-elastic rod.

79. A. M. Goldberg, V. G. Evrotin (Leningrad): Theoretical and experimental methods of design of the locks of the Leningrad hydroelectric power plant.

80. I. I. Goldenblat (Moscow): A generalized theory of plastic flow.

81. I. I. Goldenblat (Moscow): The theory of finite deformations of anisotropic elastic media.

82. I. I. Goldenblat, N. A. Nikolaenko (Moscow): A general creep theory of shells.

83. A. L. Goldenveiser (Moscow): Development of the theory of thin elastic shells.

84. A. L. Goldenveiser (Moscow): Asymptotic integration of the equations of the theory of thin elastic plates.

85. M. I. Gorbunov-Posadov (Moscow): Determination of the elastic core boundary in a sand foundation, which approaches failure under the pressure of a rigid footing.

86. A. Ia. Gorgidze (Tbilisi): On secondary effects in torsion and bending of nearly prismatic bars.

87. L. V. Gorelik (Leningrad): On filtration force and viscous friction in water-saturated sand under dynamical conditions.

88. G. A. Gorchakov, G. N. Savin (Kiev): Contribution to the dynamics of inelastic one-dimensional portions of variable length.

89. A. S. Grigoriev (Moscow): On elastic-plastic deformation of non-isotropic plates and disks.

90. A. S. Grigoriev (Moscow): Equilibrium of membrane shells of revolution for large displacements and strains.

91. S. S. Grigorian (Erevan): Shear design of thin orthotropic sandwich shells.

92. S. S. Grigorian (Moscow): The general equations of soil dynamics and some particular solutions.

93. D. V. Grilitskii (Lvov): Torsion of an elastic layer.

94. I. V. Grokhin (Leningrad): Stress concentration in notched tension strips under large creep deformations.

95. V. S. Gulenko, V. I. Massakovskii (Dnepropetrovsk): The pressure of an annular die on an elastic half space.

96. I. I. Gukasovskii (Tbilisi): Effect of shear stresses in the design of foundation strips of arbitrary rigidity under arbitrary loads.

97. S. O. Gulkanian (Erevan): The bending of a hollow prismatic rod with a rectangular hole.

98. A. M. Gutkin (Moscow): The limit equilibrium of an elastic-plastic disc that is compressed between rough rigid plates.

99. S. G. Gutman (Leningrad): A plane multiply-connected region subjected to a conservative body force and concentrated loading.

100. S. G. Gutman (Leningrad): The equilibrium of a hollow sphere under its own weight and hydrostatic pressure on one of its surfaces when the axis of the cone has an arbitrary orientation.

101. V. M. Darevskii, P. I. Kabanskii (Moscow): Buckling of cylindrical cantilever shell with ring-stiffened edge under internal pressure.

ERLIKH, Yakov Moiseyevich, kand.ekonom.nauk; KOZLOV, Vladimir Sergeyevich, kand.ekonom.nauk; GOL'DBERG, Abram Mikhaylovich, starshiy prepodavatel'; PRIVEZENTSEVA, A.G., red.; PYATAKOVA, N.D., tekhn.red.

[Statistical study of labor productivity in industry; based on materials of the Odessa Economic Council] Statisticheskoe izuchenie proizvoditel'nosti truda v promyshlennosti; po materialam predpriiatii Odesskogo sovnarkhoza. Moskva, Gos.stat. izd-vo, 1959. 129 p. (MIRA 13:2)

(Odessa Province--Productivity accounting)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

T

Country : USSR
Category: Human and Animal Physiology. Nervous System. Higher Nervous Activity. Behavior.

Abs Jour: RZhBiol., No 1, 1958, 89238

Author : Gel'dberg, A.M
Inst : Institute of Psychology, Ukr SSR
Title : On Thought Disturbances in Patients with Damage of the Frontal Cerebral Lobes.

Orig Pub: Nauk. zap. Nauk, desl. in-t psikhol. URSR, 1956, 4, 214-243.

Abstract: Perception, understanding of visual material of words and narration was investigated in 84 patients with organic damage of the frontal cerebral lobes. Lowering of comprehension and of the ability to summarize sensory recognition (lack of comprehension

Card : 1/3

T

Country : USSR
Category: Human and Animal Physiology. Nervous System. Higher Nervous Activity. Behavior.

Abs Jour: RZhBiol., No 19, 1958, 89238

of the meaning of pictures, fragmentary character of their perception, difficulty or inability of classification of objects etc.), as well as narrowing in the evaluation of the content of words in their understanding, slowing and difficulty of understanding of narration were observed. Perseveration, inability of grasping the essence, of establishing a relationship between parts of a unit, and intrusion of extraneous associations also were noted. The author underlines the role of the weaking of inhibitions, of the liveliness of nervous processes and of the regulating role

Card : 2/3

Country : USSR T
Category: Human and Animal Physiology. Nervous System. Higher Nervous Activity. Behavior.

Abs Jour: RZhBiol. No 19, 1958, 89238

of the second signal system in the above-noted disturbances -- M.I. Lisina

Card : 3/3

GOL'DBERG, A. M.

Peculiarities in the mastery of vocabulary of their mother tongue by pupils in the lower grades of schools for the deaf. Nauk. zap. Nauk.-dosl. inst. psykhol. 11:109-112 '59. (MIRA 13:11)

1. Institut psikhologii, Kiyev.
(Children, Deaf—Language)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

SVIDER, E. M.; GOL'DBERG, A. M.

Dispensary treatment of diabetes mellitus. Zdravookhranenie 5 no.2:59-60 Mr-Ap '62. (MIRA 15:7)

1. Iz 4-oy klinicheskoy bol'nitsy g. Kishineva (glavnyy vrach M. A. Ashumov).

(DIABETES)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

C-0 (CONFIDENTIAL)

2/

[illegible] motor

The use of green wood in a series of gas generators. S. F. Orlov and A. M. Gol'dberg. *Tsvetnye Metally* 9, No. 12, 8-10(1949). Cross-sectional drawings and operating data on 2 alternate types of generators are presented.

Marshall Sittig

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

MEN'SHIKOV, I.A., prof., doktor tekhnicheskikh nauk; ZABUSEKIN, I.N., dots. kand.tekhn.nauk; VORONITSYN, K.I., dots., kand.tekhn. nauk, laureat Stalinskoy premii, retsenzent; GOL'DBERG, A.M., dots., kand.tekhn.nauk, retsenzent; BRILING, N.R., zasluzhennyy deyatel' nauki i tekhniki, prof., doktor tekhn.nauk. SHENDAREVA, L.V., tekhn.red.

[Lumber transport traction machinery] Lesotransportnye tiagovye mashiny. Moskva, Goslesbumizdat. Pt.1. 1951. 586 p. (MIRA 11:2)
(Lumber--Machinery) (Traction engines)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

GOL'DBERG, A. M.

"Increasing the Efficiency of Engines in Lumber Hauling Machines," Les. prom., 12, No.1, 1952

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

ORLOV, S.F., doktor tekhn. nauk; GOL'DBERG, A.M., kand. tekhn. nauk; BELOZEROV, Ye.Ya., aspirant; YERSHOV, I.S., inzh.; LYCHEV, D.P., inzh.; RAVDIN, P.D.

First attempts at the skidless conveying of timber. Mekh. trud. rab. 11 no.10:6-8 O '57. (MIRA 10:11)

(Lumber--Transportation)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

GOL'DBERG, Aleksandr Moritsevich; ZAYCHIK, G.I., prof., doktor tekhn. nauk, retsenzent; YERAKHTIN, D.D., dotsent, retsenzent; SOLOV'YEV, N.S., red.; PITERMAN, Ye.L., red.izd-va; BACHURINA, A.M., tekhn.red.

[Engines for machines used in lumber transportation] Dvigateli lesotransportnykh mashin. Moskva, Goslesbumizdat, 1959. 470 p. (MIRA 12:7)

(Engines) (Lumbering--Equipment and supplies)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

GOL'DBERG, A.M.

Increasing the productivity of felling and skidding machines.
Trudy LTA no.83:5-10 '59. (MIRA 13:4)
(Lumbering--Machinery)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

ORLOV, Sergey Fedorovich, doktor tekhn.nauk; GOL'DBERG, A.M., red.; PITERMAN, Ye.L., red. izd-va; VDOVINA. V.M., tekhn. red.

[Theory and use of automotive machinery in lumbering camps] Teoriia i primenenie agregatnykh mashin na lesozagotovkakh. Moskva, Goslesbumizdat, 1963. 270 p. (MIRA 16:8)
(Lumbering--Machinery)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

ANISIMOV, G.M.; GALYAMICHEV, V.A.; GOL'DBERG, A.M.; DRAKE, A.D.; KUZ'MIN, Yu.M.; LYSOCHENKO, A.A.; MAGIROVSKIY, N.P.; FEDOSEYEV, O.V.

Studying the operational conditions of the TDT-55 timber-skidding tractor. Trakt. i sel'khozmash. no.11:1-4 N '65. (MIRA 18:12)

1. Kafedra tyagovykh mashin Leningradskoy akademii imeni Kirova (for Anisimov, Galyamichev, Gol'berg, Drake, A.D.). 2. Omskiy traktornyy zavod (for Kuz'min, Lysochenko, Magirovskiy, Fedoseyev).

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

GOL'DBERG, A. M.

"Method of Solving Kirsch's Problem of a Field Limited by Concentric Circles," Trudy Len. politekh. inst., No.3, 1947

GOL'DBERG, A. M.

25518. Graficheskiy Metod Razdeleniya Glavnykh Ne--Pryarhaniy Po Dannym Opticheskogo Issledovaniya. Trudy Leningr. Po-Litekhn. In-ta Im. Kalinina, 1 43, No. 5, s. 27-51--Bibliogr: 8 Nazv.

SO: Letopis' Zhurnal'nykh Statey, Vol. 34, Moskva, 1949

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

GOL'DBERG, A.M., kandidat tekhnicheskikh nauk.

Semi-plane surfaces weakened by a circular hole and under local pressure distributed evenly on the area of rectilinear edge. Izv. VNIIG no.43:133-150 '50. (MLRA 10:2)
(Mechanics, Analytic)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

Goldberg A M

2086. Goldberg, A. M. The stress distribution in plates with reinforced round holes (in Russian). *Trudi, Leningr. politekhn. inst.* no. 178, 200–231, 1955; *Ref. Zh. Mekh.* no. 10, 1956, Rev. 6832.

The stresses in a plate at a reinforced round hole are analyzed.

The stress function for the continuous plate is applied in the form

$$F_0 = a_0 r^2 + a_1 r^3 \cos\theta + a_1' r^3 \sin\theta + \sum_2^{\infty} (a_n \cos n\theta + a_n' \sin n\theta)\, r^{n+2} + \sum_2^{\infty} (b_n \cos n\theta + b_n' \sin n\theta)\, r^n$$

The stress function for the plate and reinforcing ring is applied in the form suggested by Mitchell.

The coefficients of these functions are determined from the boundary conditions on the contour of the joint between the plate and the ring and the conditions at infinity.

An example is analyzed and curves given for the stress distribution in a wedge (triangular plate) with a reinforced round hole when a hydrostatic pressure is applied to one edge of the wedge.

M. P. Sherstnev

Courtesy Referativnyi Zhurnal, USSR

Translation, courtesy Ministry of Supply, England

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

GOL'DBERG, A.M.; SMESOVA, L.S., tekhn. red.

[Thin-walled vessels] Tonkostennye sosudy; konspekt lektsii po razdelu kursa soprotivlen'ia materialov dlia KhTF. Leningrad, Leningr. Lesotekhn. akad., 1961. 26 p. (MIRA 16:7)

(Cemical apparatus)

PART I BOOK EXPLOITATION SOV/4042

Leningrad. Universitet

Polyarizatsionno-opticheskiy metod issledovaniya napryazheniy: trudy konferentsii 19-21 fevralya 1958 goda (Optical Polarization Method for Stress Analysis; Transactions of the Conference of February 19-21, 1958). [Leningrad] Izd-vo Leningradskogo univ., 1960. 451 p. Errata slip inserted. 2,500 copies printed.

Resp. Ed.: S.F. Shishobalov; Ed.: Ye.V. Shebanova; Tech. Ed.: S.D. Volokhina; Editorial Board: S.G. Gutman, L.M. Kachanov, V.N. Krasnov, T.D. Marevicova, N.I. Prigorovskiy, V.M. Proshko, N.S. Rozenov, and Ye.I. Kiel'shteyn.

PURPOSE: This collection of 58 articles is intended for scientists and engineers concerned with experimental stress analysis of machine parts and structural components.

COVERAGE: The collection contains reports presented at the conference on optical polarization methods in stress analysis held February 19 - 21, 1958, in Leningrad and attended by 324 delegates including representatives of the People's Republic of China, the Polish People's Republic, the German Democratic Republic, and the Republic of Czechoslovakia. The reports discuss general theoretical problems and new methods of investigation and describe apparatus and materials used in the optical method. Solutions of specific two-dimensional and three-dimensional problems occurring in shipbuilding, aircraft design, engine construction, in various branches of heavy and precision machine design, in mining, metallurgy, hydraulic structures, railroad transport, in structural mechanics, geodynamics, in the control of stresses in products of the glass and electronic industry, etc., are given. Solution of the three-dimensional problem by means of the method of photoelasticity is introduced and the use of this method for the solution of problems associated with plasticity, creep, dynamics, hydrodynamics, etc., is demonstrated. Reports previously published elsewhere are printed here in abbreviated form. No personalities are mentioned. References are found at the end of 47 of the reports.

Optical Polarization Method (Cont.) SOV/4042

Card 11/12

DOLGUSHEVSKIY, F.G., dots.; GOL'DBERG, A.M., dots., KOZLOV, V.S., dots.; PANCHENKO, V.P., assistent; POLUSHIN, P.I., st. prepod.; ERLIKH, Ya.M., dots., TRUKHANOVA, A.N., red.; IL'YUSHENKOVA, T.P., tekhn. red.

[Problems in economic statistics] Sbornik zadach po ekonomicheskoi statistike. [By] F.G.Dolgushevskii i dr. Moskva, Gosstatizdat, 1963. 311 p. (MIRA 16:9)
(Statistics--Problems, exercises, etc.)

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GOL'DBERG, A.M., kand. ekon. nauk dots.; DOLGUSHEVSKIY, F.E.; KRAMA-OVSKIY, L.M., TRUNFANOVA, A.N., red.

[Collection of problems on the statistics of capital construction] Sbornik zadach po statistike kapital'nogo stroitel'stva. Moskva, Statistika, 1965. 214 p.
(MIRA 18:1)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R000515610020-1"

GOL'DBERG, A.O.

Public health in Soviet Estonia. Klin.med. no.10:62-66 '61. (MIRA 14:10)

1. Ministr zdravookhraneniya Estonskoy SSR.
(ESTONIA--PUBLIC HEALTH)

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L 24118-66 EWT(d)/EWT(1)/EWA(h)

ACC NR: AP6010788 SOURCE CODE: UR/0106/66/000/002/0031/0042

AUTHOR: Gol'dberg, A. P.

ORG: none

TITLE: Characteristics of suppression systems of pulsed interference

SOURCE: Elektrosvyaz', no. 2, 1966, 31-42

TOPIC TAGS: pulse signal, pulse interference, signal interference, interference reduction, receiver sensitivity

ABSTRACT: The general properties and characteristics of suppression systems of pulsed interference have been investigated. A classification of these systems is given. It is shown that all suppression systems of pulsed interference are connected with the deterioration of the interference-killing feature of a receiver in regard to nonpulsed interference. Additional characteristics of the suppression systems are introduced. The effect of a generalized signal on a general suppresion system are analyzed. It is shown that the operation of the suppression system is expedient only at given parameters of the signal. Calculation examples of suppression systems of pulsed interference, boundary parameters of the generalized signal, and of real interference

 UDC: 621.391.8

L 24118-66

ACC NR: AP6010788

with the generalized signal are given. Orig. art. has: 3 figures, 4 formulas, and 3 tables. [Based on author's abstract] [NT]

SUB CODE: 17/ SUBM DATE: 25Feb65/

Card 2/2

[illegible]

AUTHORS: [illegible], V.P., [illegible], P.A., [illegible], L.Ya., Gol'dberg, A.L. and [illegible], M.A.

TITLE: A Increase in the Efficiency of Operation of Pneumatic Oil Pump Foundations

PERIODICAL: Neft i Khimiya, 1959, No 9, pp. 1 - [illegible] (USSR)

ABSTRACT: [illegible] 1) [illegible]; 2) the [illegible] removal of [illegible] of the [illegible]; 3) [illegible] 4) the [illegible] of polluted [illegible] field

Card 1/2

[illegible]

An Increase in the Efficiency of Operation of Pitmonlest Jigging Machines

96 to 92 per minute; 7) a scheme for automating the control of the discharge of air in relation to the load was developed. The sieve modification increased coal losses with rock by a factor of 1 - 7 which varies at present between 0.2 - 0.5 . The yield of the fraction of specific gravity 1.3 - 1.8 in coal increased and varies within 0.5 - 3.0 . Coal loss in the intermediate product decreased by a factor of 3 and varies within 3.7 .
There are 5 figures and 4 tables.

ASSOCIATIONS: Dnepropetrovskiy gornyy institut (Dnepropetrovsk Mining Institute), Makeyevskiy koksokhimicheskiy zavod (Makeyevka Coking Works)

Card 2/2

MAKAROV, D.I.; GOL'DBERG, A.S.; GESKIN, E.S.; GIL'MAN, S.M.; KRAVCHENKO, A.Ya.; GAMBAROV, V.I.

Simple control of air flow. Avtom.i prib. no.1:24-26 Ja-Mr '63. (MIRA 16:3)

1. Ukrainskiy gosudarstvennyy proyektnyy institut "Metallurgavtomatika" (for all except Kravchenko, Gambarov). 2. Metallurgicheskiy zavod imeni Petrovskogo (for Kravchenko, Gambarov).
(Open-hearth furnaces) (Electronic control)

GOL'DFARB, E.M., kand. tekhn. nauk; GESKIN, E.S., inzh.; GOL'DBERG, A.S., inzh.; GULENKO, G.V.

Applying the principle of control by perturbation for open-hearth furnace control systems. Stal' 23 [i.e. 24] no.4:372-374 Ap '64. (MIRA 17:8)

1. Dnepropetrovskiy metallurgicheskiy institut i Ukrainskiy gosudarstvennyy proyektnyy institut "Metallurgavtomatika".

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[illegible], [illegible], [illegible], [illegible], [illegible] Deceased, [illegible], [illegible],
[illegible], [illegible].

Report [illegible] [illegible] regularities in the variation of
the [illegible] of a Martian Tornado. Avtom. i prib.
[illegible]. [illegible]

ZAPROMETOV, B.G. [deceased]; GOL'DBERG, A.Ya.

Electric properties of coagulate hydrosols of silicic acid and of aluminum hydroxide. Trudy SAGU no.33:21-28 '52. (MLRA 9:5)
(Silicic acid) (Aluminum hydroxide) (Colloids--Electric properties)

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GOL'DBERG, B. I

Results of processing qualified counting of meteors. Astron.tsir. 185:18-20 O '57. (MIRA 11:4)

1. Meteornaya stantsiya Vsesoyuznogo astronomo-geodezicheskogo obshchestva, Simferopol'.
(Meteors)

MARTYNENKO, V.V.; GOL'DBERG, B.I.

G.O. Zateishchikov Meteor Station in Simferopol'. Biul. VAGO no.22:42-46 '58. (MIRA 11:6)

1.Zaveduyushchiy Simferopol'skoy meteornoy stantsiyey im. Zateyshchikova (for Martynenko). 2.Uchenyy sekretar' Simferopol'skoy meteornoy stantsii im. Zateynikova (for Gol'berg).
(Simferopol'--Meteors)

GRINBERG, Ya.M., dotsent; GRIGOR'YEV, P.S.; BOYSEYRA, N.N.; GOL'DBERG, B.M.; NOSOVA, N.P.

Some problems concerning the etiology and clinical aspects of chronic hepatitis. Kaz. med. zhur. no.5:8-10 S-O'63 (MIRA 16:12)

1. Fakul'tetskaya terapevticheskaya klinika (zav. - prof. N.Ye. Kaverskiy) Kuybyshevskogo meditsinskogo instituta.